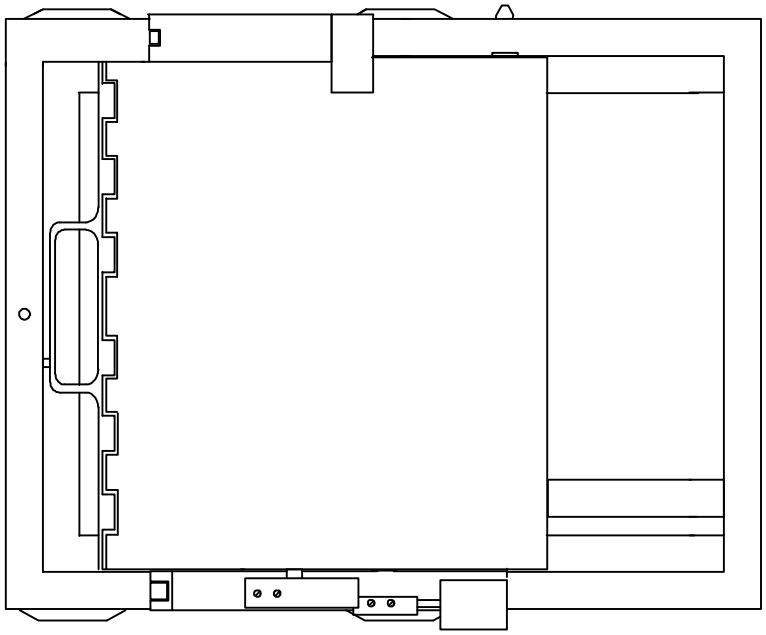
Publication No. XP 3239-1
July 1993

INSTRUCTIONS FOR USING A MINILOADER 1 RECEIVING MAGAZINE ADAPTER

in the

Kodak MINILOADER 2 AND 2 PLUS



Use this Publication for:-
MINILOADER 2 (Service code 3213), MINILOADER 2 Plus Model M35-M (SV code 3239) and MINILOADER 2 Plus Model 480RA (SV code 3240).

HEALTH SCIENCES DIVISION

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CAUTION

This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

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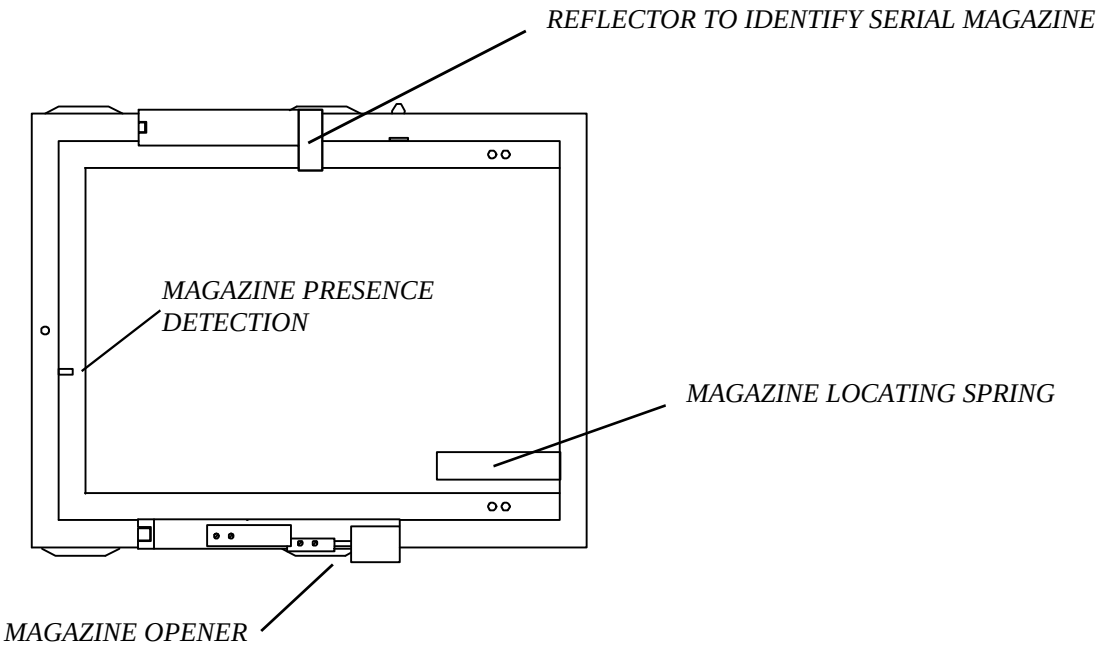
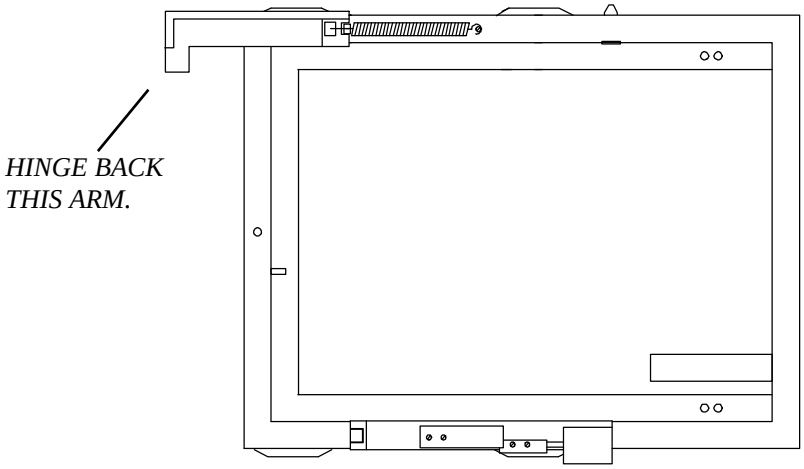
OPERATION GUIDE.

The MAGAZINE ADAPTOR is designed to allow the SERIAL UNLOADING of 18 x 24 FILMS from a MINILOADER 1 RECEIVING MAGAZINE in a MINILOADER 2 or 2 PLUS.

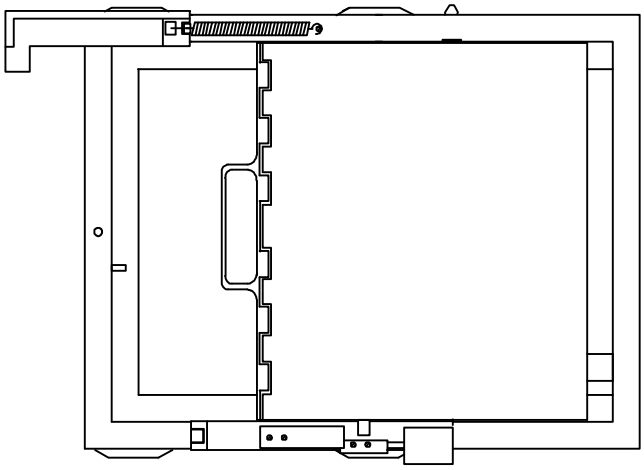
1. Place the ADAPTOR FRAME on a table as shown below.



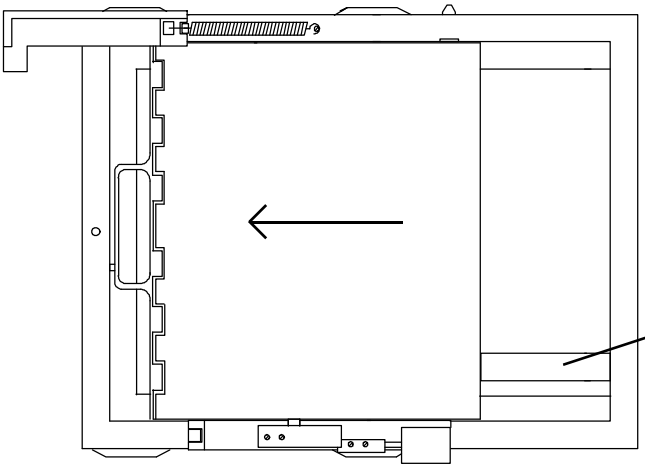
2. Hinge back the SPRING LOADED ARM.



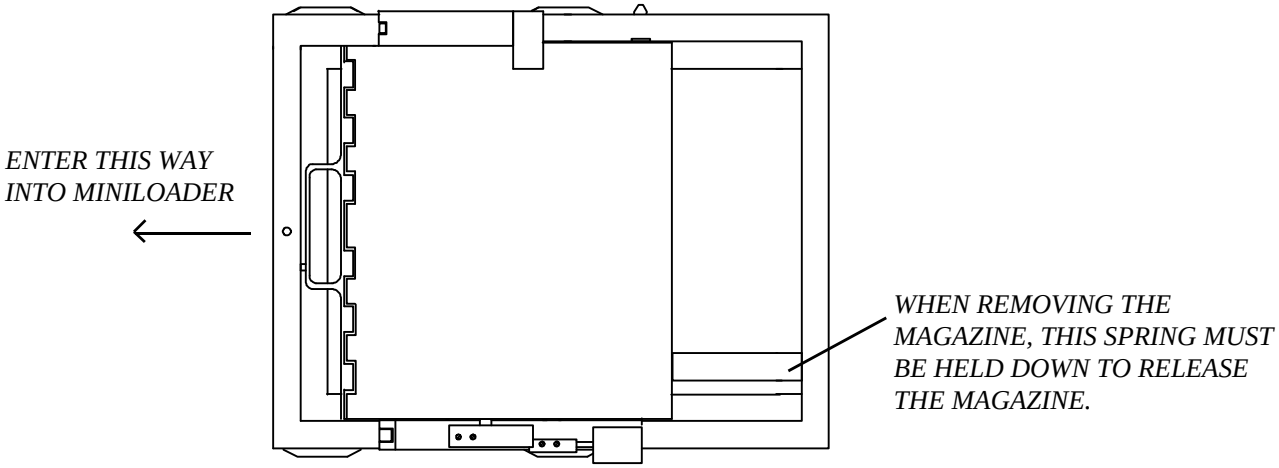
3. Place the MINILOADER 1 MAGAZINE in the ADAPTOR as shown below.



4. Push the MAGAZINE fully forward to the front of the ADAPTOR FRAME, the SPRING should hold the MAGAZINE in position.



5. Fold back the spring loaded ARM as shown below. Enter the ADAPTOR FRAME into the 18 x 24 CARRIAGE in the MINILOADER in the direction shown, and select SERIAL MODE. To remove the MAGAZINE from the ADAPTOR, reverse the procedure. IMPORTANT, the MAGAZINE LOCATION SPRING must be held down to allow the MAGAZINE to slide back.



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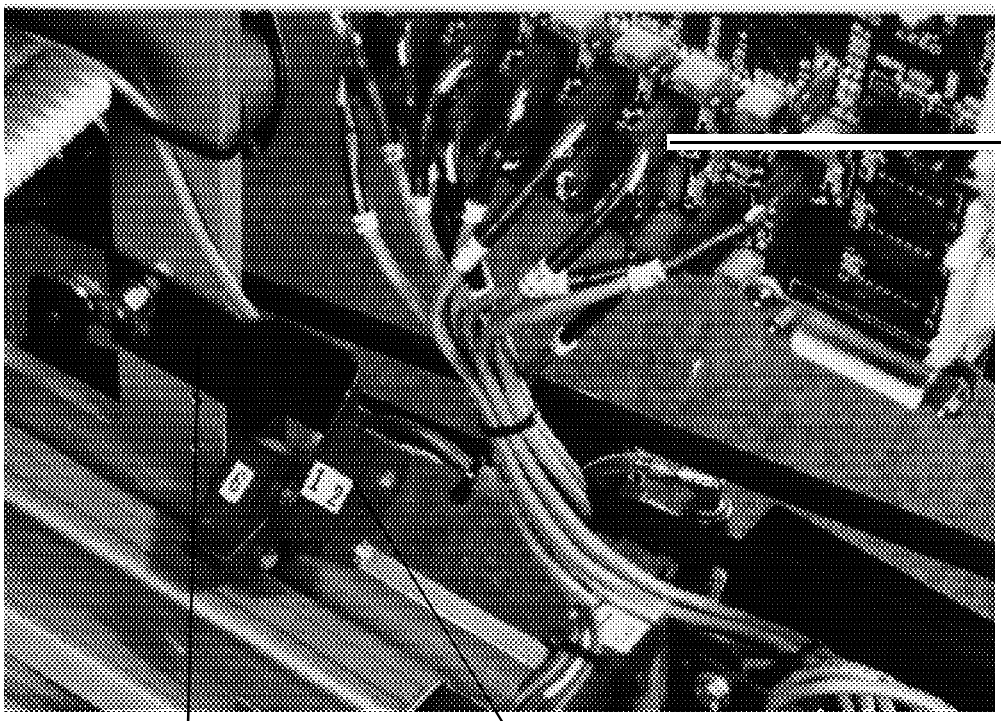
INSTALLATION INSTRUCTIONS.

If the MINILOADER is a MODEL 2 and not a 2 PLUS, an extra PHOTOCELL FC12 must be installed to detect when the MAGAZINE is empty. The MINILOADER 2 PLUS already has this photocell fitted. For MINILOADER 2 PLUS go to page 7.

For a MINILOADER 2, the following parts are required.

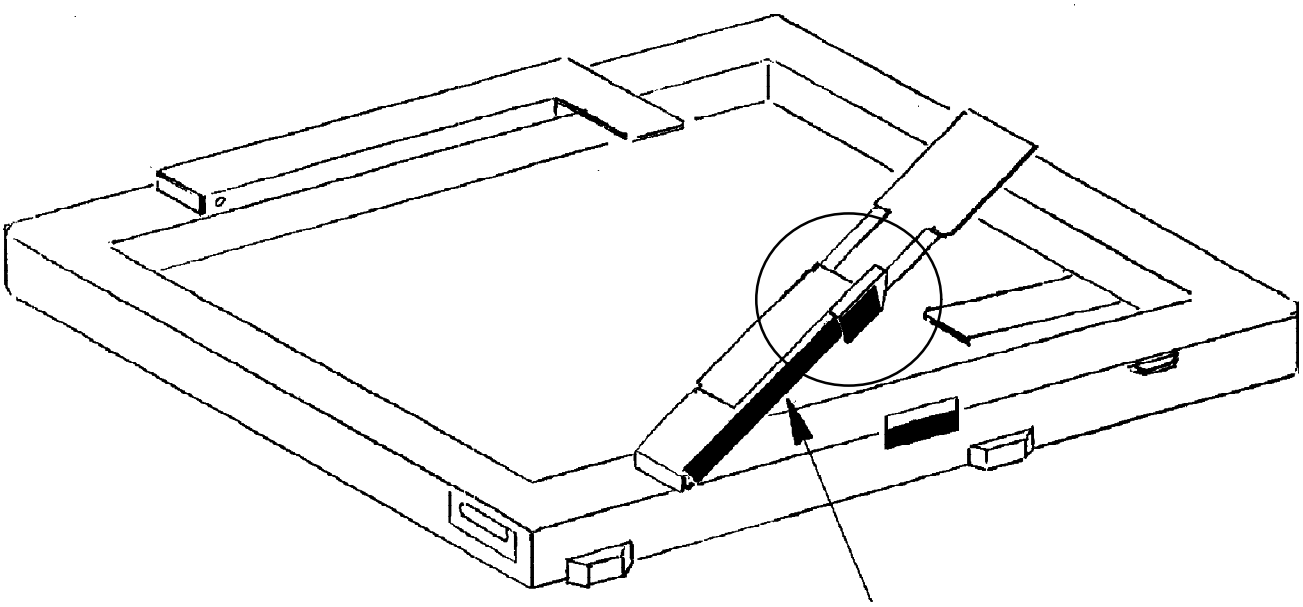
PART NO	QUANT.	DESCRIPTION.
30025812	2	SCREW, HEX-HEADED, M3 x 20
30015568	2	WASHER, FLAT, M4
30010011	1	PHOTOCELL ASSEMBLY
30012181	1	PLATE, THREADED, MICROSWITCH MOUNTING
30026132	1	SUPPORT, PHOTOCELL FC12

Mount the new PHOTOCELL FC12, using the existing CAM MOTOR MOUNTING BRACKET RETAINING BOLT as shown below. Carefully route the CABLE into the HARNESS and secure with WIRE TIES. Plug the PHOTOCELL into the FC12 SOCKET on PCB 303.

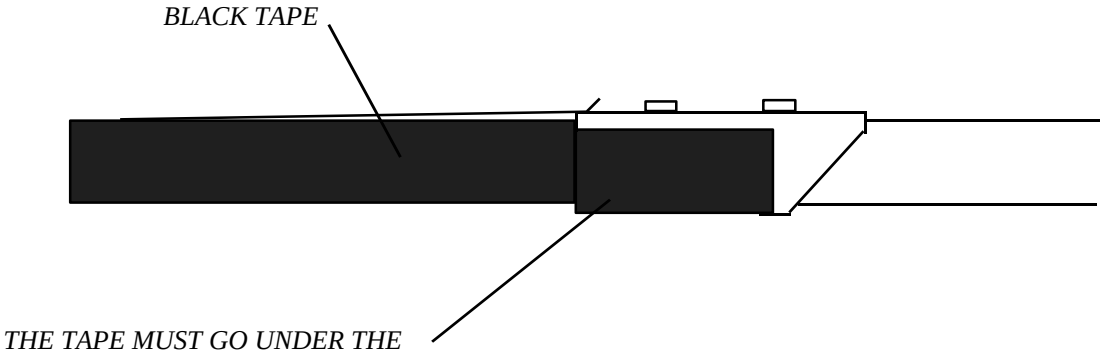


COMPLETING THE INSTALLATION.

IMPORTANT - Ensure there is a strip of BLACK TAPE on the edge of the MAGAZINE OPENING LEVER as shown below. If this TAPE is not present, the MAGAZINE OPEN PHOTOCELL FC20 will get a reflection from the metal edge of the LEVER, detect a MAGAZINE open error, and prevent the MAGAZINE CARRIAGE from driving. If the TAPE is missing, use INSULATION TAPE to cover the edge of the LEVER, making sure it goes under the edge of the BRACKET.



THERE MUST BE A STRIP OF BLACK TAPE ON THE EDGE OF THIS LEVER.



THE TAPE MUST GO UNDER THE EDGE OF THIS BRACKET

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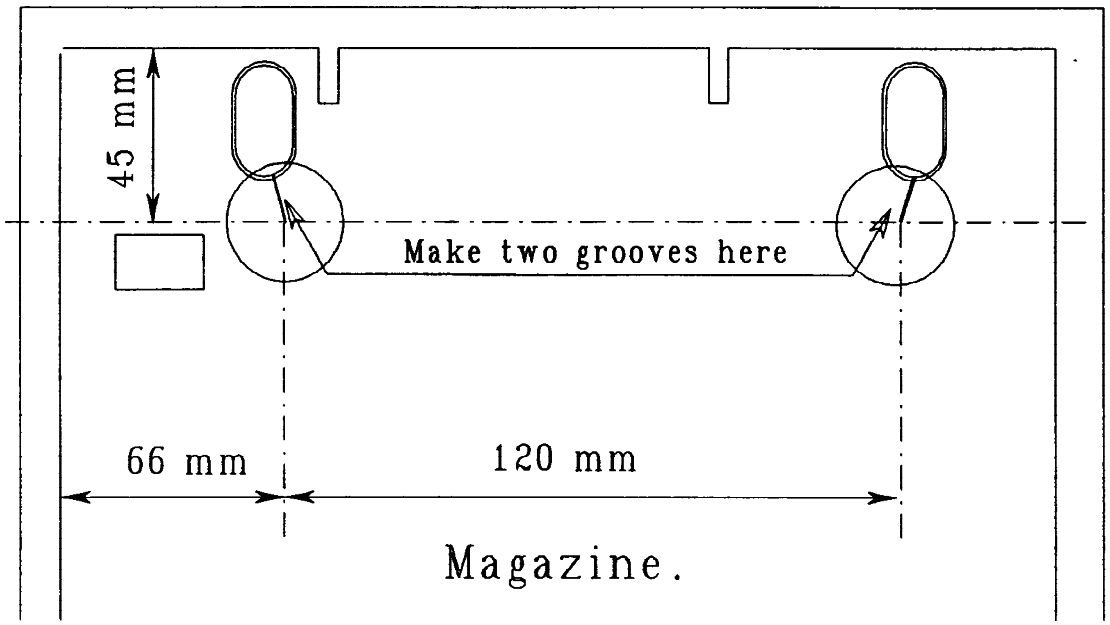
IMPORTANT - For MINILOADER 2 PLUS, SOFTWARE version P2.1 or higher must be fitted, or the MAGAZINE EMPTY detection will not operate. PHOTOCELL FC12 is used for detecting SUPPLY MAGAZINE CODE part 2 as well as detecting an empty MINILOADER 1 MAGAZINE in the ADAPTOR FRAME.

Therefore check that the PHOTOCELL FC12 detects both the SERIAL REFLECTOR on a 24 x 30 SERIAL MAGAZINE (MINILOADER 2 PLUS only), and the MAGAZINE EMPTY PATCH on a MINILOADER 1 MAGAZINE in the ADAPTOR FRAME.

If necessary, realign the PHOTOCELL so it is looking at the REFLECTORS correctly. It is best to use an IR PHOSPHOR PROBE (TL 2579) to see where the PHOTOCELL is aimed. If a PROBE is not available, use paper to mask the outer edges of the REFLECTORS while you are testing.

To set the sensitivity of the PHOTOCELL, place an empty 18 x 24 MINILOADER 1 MAGAZINE in the ADAPTOR FRAME, open the MAGAZINE using TEST MODE, then rotate the POTENTIOMETER (R358) counter-clockwise until the LED (D313) turns off, then clockwise until the LED lights plus three more turns. If the LED does not go off when rotating the POTENTIOMETER counter-clockwise because the end of the track is reached (a clicking sound is heard), just turn the POTENTIOMETER clockwise two turns.

To prevent difficulty in removing the last FILMS from the MINILOADER 1 MAGAZINES, it is important that two small "GROOVES" are cut in the base of any MAGAZINES that will be used, as shown below. Any cutting tool can be used as the MAGAZINE is plastic. These "GROOVES" allow the VACUUM under the last FILMS in the MAGAZINE to escape.



Check the operation of the MAGAZINE OPEN PHOTOCELL FC20 with the ADAPTOR FRAME fitted. The MAGAZINE LID should be detected as open if one FILM is sticking out the MAGAZINE. If you need to alter the position of the PHOTOCELL FC20, make sure it is still set correctly for a MINILOADER 2 MAGAZINE.

Test the operation of the MINILOADER with the ADAPTOR FRAME thoroughly, before handing over to the CUSTOMER. Ensure you train the CUSTOMER carefully to use the ADAPTOR FRAME correctly.

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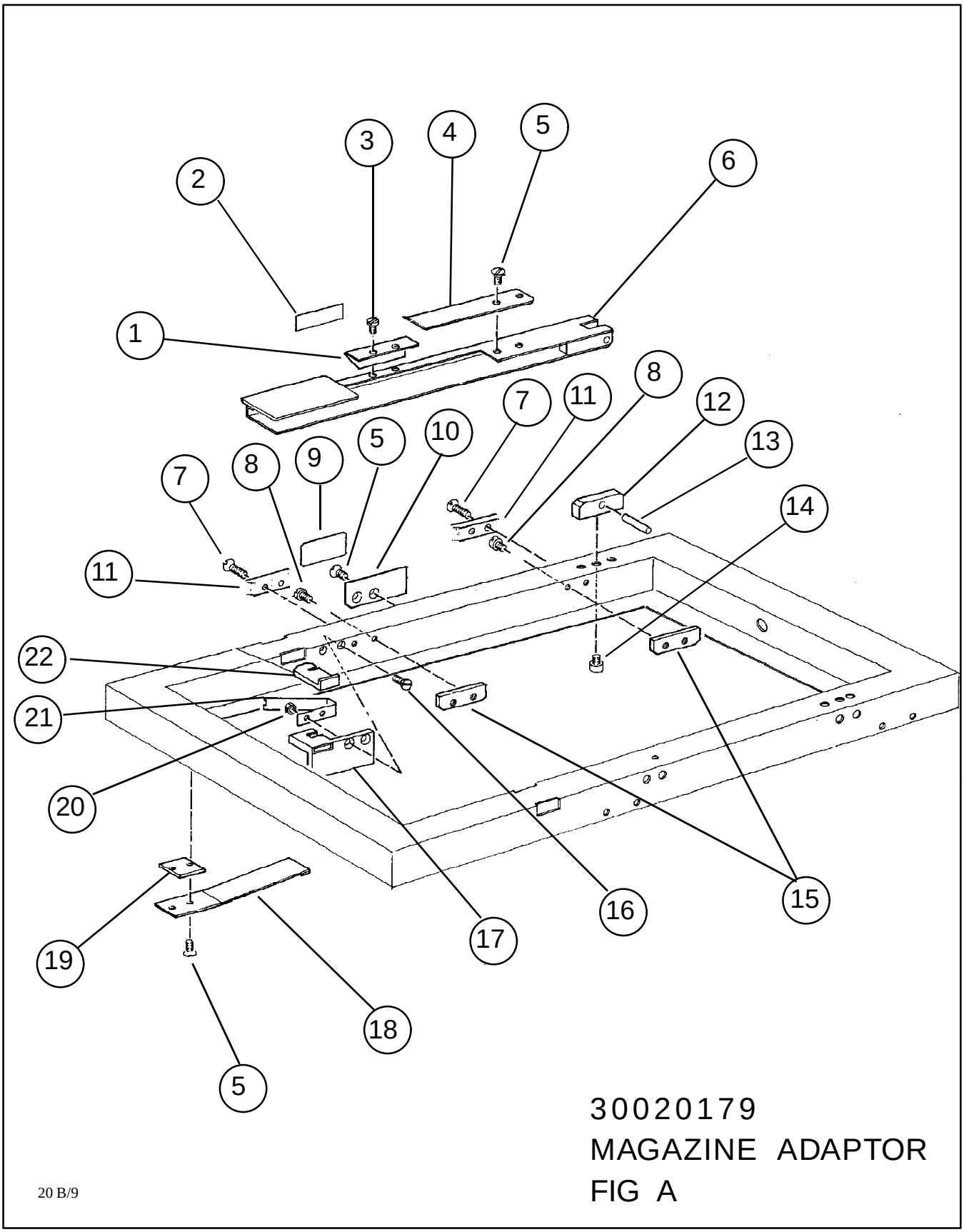
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30020179
MAGAZINE ADAPTOR
FIG A
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KEY	PART NO	DESCRIPTION
1	30020199	HOLDER FOR NON-REFLECTIVE PATCH
2	30020201	NON-REFLECTIVE PATCH
3	30015548	SCREW, CROSS-HEADED, M3 x 6
4	30020202	CLIP, MAGAZINE OPENER LOCATION
5	30015556	SCREW, CROSS-HEADED, COUNTERSUNK, M3 x 6
6	30020182	LEVER, MAGAZINE OPENING
7	30015559	SCREW, CROSS-HEADED, COUNTERSUNK, M3 x 14
8	30025146	SCREW, CROSS-HEADED, M3 x 5
9	30020200	REFLECTOR, MAGAZINE OPEN DETECTION
10	30020198	HOLDER, REFLECTOR, MAGAZINE OPEN DETECTION
11	30020197	GUIDE BLOCK, MAGAZINE RAIL
12	30020190	HINGE BLOCK
13	30025170	PIN, 4 mm x 25 mm
14	30025172	SCREW, SOCKET-HEADED, M4 x 5
15	30020192	GUIDE BLOCK, MAGAZINE CARRIER
16	30015557	SCREW, CROSS-HEADED, COUNTERSUNK, M3 x 10
17	30020189	GUIDE, RIGHT HAND
18	30020195	SPRING, LOCATING
19	30020185	RETAINER, FOR SPRING
20	30015563	NUT, M3
21	30020193	SPRING, RIGHT HAND
22	30020187	ACTUATOR, LEFT, MAGAZINE OPENING

30020179
MAGAZINE ADAPTOR
FIG A

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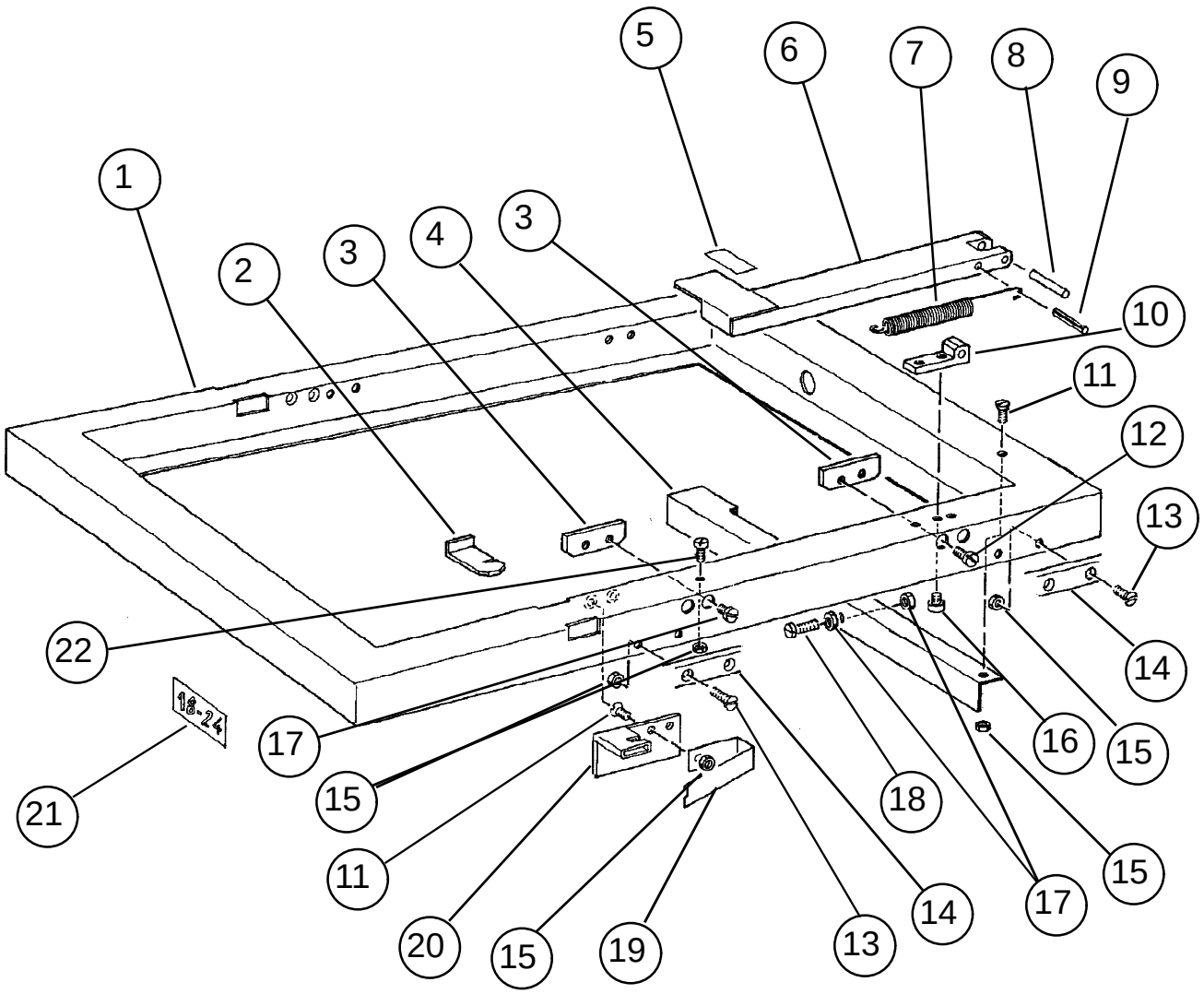

30020179
MAGAZINE ADAPTOR
FIG B

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KEY	PART NO	DESCRIPTION
1	30020181	FRAME, MAGAZINE ADAPTOR
2	30020186	ACTUATOR, RIGHT, MAGAZINE OPENING
3	30020192	GUIDE BLOCK, MAGAZINE CARRIER
4	30020183	ACTUATOR, DETECTION MICROSWITCH
5	30023185	REFLECTOR
6	30020184	CARRIER, FOR SERIAL MODE DETECTION REFLECTOR
7	30020196	SPRING, RETURN
8	30025170	PIN, 4 mm x 25 mm
9	30025171	ROLLPIN, 3 mm x 25 mm
10	30020191	HINGE BLOCK
11	30015557	SCREW, CROSS-HEADED, COUNTERSUNK, M3 x 10
12	30025146	SCREW, CROSS-HEADED, M3 x 5
13	30015559	SCREW, CROSS-HEADED, COUNTERSUNK, M3 x 14
14	30020197	GUIDE BLOCK, MAGAZINE RAIL
15	30015563	NUT, M3
16	30025172	SCREW, SOCKET-HEADED, M4 x 5
17	30015564	NUT, M4
18	30015653	SCREW, CROSS-HEADED, M4 x 16
19	30020194	SPRING, LEFT HAND
20	30020188	ACTUATOR, RIGHT, MAGAZINE OPENING
21	30023183	LABEL, 18 x 24
22	30015548	SCREW, CROSS-HEADED, M3 x 6

30020179
MAGAZINE ADAPTOR
FIG B

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